## AMENDMENTS TO THE CLAIMS

**This listing of claims will replace all prior versions and listings of claims in the application:**

## LISTING OF CLAIMS:

1. (currently amended): A passive optical network transmission system comprising:

a plurality of subscriber units including optical network unit processing portions for terminating an optical communication network;

a station unit including optical line terminal processing portion terminating said optical communication network;

wherein said optical line terminal processing portion comprises grant generating means for generating transmission permission for a cell of an unspecified bit rate traffic type by assigning extra band constantly;

wherein each of said optical network units comprises buffer means for storing said cell of the unspecified bit rate traffic type, and idle cell generating means for generating an idle cell for inserting in said extra band;

wherein said optical line terminal processing portion comprises monitoring means for monitoring increasing and decreasing of said idle cells~~;~~, and means for ~~recognizing accumulation of cell in said optical network unit processing portion depending upon the result of monitoring; and~~ individually handling ~~band~~ bandwidth assignment ~~process~~ in said optical communication network according to ~~necessary or unnecessary of band restriction depending upon~~ said unspecified bit rate traffic ~~type~~ or a constant bit rate traffic.

2. (currently amended): A passive optical network transmission system as set forth in claim 1, ~~which~~ wherein said optical line terminal processing portion further comprises means for rejecting packet which cannot be processed.

3. (canceled).

4. (currently amended): A passive optical network transmission system as set forth in claim ~~3~~ 1, wherein said optical line terminal processing portion further ~~includes~~ comprises means for discriminating ~~said~~ the transmission permission for permitting individual process of said unspecified bit rate traffic ~~requiring band restriction~~ and said constant bit rate traffic ~~not requiring band restriction~~.

5. (currently amended): A passive optical network transmission system as set forth in claim 4, wherein said optical line terminal processing portion further ~~includes~~ comprises means for setting weighting function for estimating variation of said traffic.

6. (original): A passive optical network transmission system as set forth in claim 1, wherein said optical line terminal includes means for notifying said subscriber unit stopping transmission for packet information.

7. (currently amended): A dynamic band assignment method in a passive optical network transmission system including a plurality of subscriber units including optical network unit processing portions for terminating an optical communication network and a station unit including optical line terminal processing portion terminating said optical ~~communication~~ network, comprising: ~~the steps of~~

generating transmission permission for a cell of an unspecified bit rate traffic type by assigning extra band constantly in said optical line terminal processing unit;

storing said cell of the unspecified bit rate traffic type in a buffer in said each of said optical network unit;

generating an idle cell for inserting in said extra band in said each of said optical network unit;

monitoring increasing and decreasing of said idle cells in said optical line terminal processing portion; and

~~recognizing accumulation of cell in said optical network unit processing portion depending upon the result of monitoring; and~~

individually handling ~~band~~ bandwidth assignment ~~process~~ in said optical communication network according to said unspecified bit rate ~~necessary or unnecessary of band restriction depending upon~~ traffic ~~type~~ or a constant bit rate traffic.

8. (original): A dynamic band assignment method as set forth in claim 7, which further comprises a step of rejecting packet which cannot be processed.

9. (canceled).

10. (currently amended): A dynamic band assignment method as set forth in claim ~~9~~ 7, wherein said optical line terminal processing portion performs process comprising the step of discriminating ~~said~~ the transmission permission for permitting individual process of said unspecified bit rate traffic ~~requiring band restriction~~ and said constant bit rate traffic ~~not requiring band restriction~~.

11. (original): A dynamic band assignment method as set forth in claim 10, wherein said optical line terminal processing portion performs process comprising the step of setting weighting function for estimating variation of said traffic.

12. (original): A dynamic band assignment method as set forth in claim 7, wherein said optical line terminal processing portion performs process comprising the steps of notifying said subscriber unit stopping transmission for packet information.